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Dynamic crystallization processes of P-chiral phosphine oxides

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Document Version

Publisher's PDF, also known as Version of record

Publication date:

2014

[Link to publication in University of Groningen/UMCG research database](#)

Citation for published version (APA):

Kortmann, F. (2014). *Dynamic crystallization processes of P-chiral phosphine oxides*. [Thesis fully internal (DIV), University of Groningen]. [S.n.].

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Stellingen

Behorende bij het proefschrift

“Dynamic Crystallization Processes of P-chiral Phosphine Oxides”

van Felix A. Kortmann

1. In times of literature being mainly accessed digitally it should become common practice to add a DOI-hyperlink (Digital Object Identifier) to references.
2. Nobody can maintain comprehensive supervision for more than 7 people at the same time.
3. Synthetic routes without isolated yields can be misleading and should therefore not be published.

Q. Xu *et al.*, *J. Am. Chem. Soc.* 2008, **130** (38), 12648-12655.

<http://dx.doi.org/10.1021/ja804412k>, also see chapter 3 of this thesis.

4. Prior to worrying about “careful long-term storage of research data”, potential data loss due to hacking attacks and spending money on „tablets for everybody“, the budget should be used to maintain facilities in such a way that data loss as a result of physical theft is circumvented.
5. “*H-phosphinates are reagents that are readily prepared by those skilled in the art...*”
- Pirat *et al.*, patent WO/2009/004096
6. The term "readily available" heavily depends on the point of view and should be therefore quantified. As an example:

"...and readily prepared on a large scale from readily available (R)-2-(1-aminoethyl)-4-chlorophenol. ... The synthesis is simple and has been scaled to >100 g in 85% isolated yield"

In fact, 2-[(1R)-1-aminoethyl]-4-chlorophenol costs 499 €/g from the lowest cost supplier and its synthesis has not been published.

Z. S. Han *et al.*, *J Am Chem Soc* 2013, **135**, 2474–2477.

<http://dx.doi.org/10.1021/ja312352p>

7. It should not be possible to publish the same article twice just by rephrasing the title:

Novel Synthesis of Phosphinates by the Microwave-Assisted Esterification of Phosphinic Acids - N. Z. Kiss *et al.*, *Synth. Commun.* 2009, **39**, 2392–2404.

<http://dx.doi.org/10.1080/00397910802654880>

Microwave-Assisted Esterification of Phosphinic Acids by Alcohols, Phenols, and Alkyl Halogenides - G. Keglevich *et al.*, *Phosphorus, Sulfur, Silicon Relat. Elem.* 2011, **186**, 802–803.

<http://dx.doi.org/10.1080/10426507.2010.499550>

8. Dutch “monsters” and “lucifers” are not as scary as you would expect.
9. Peer review has to be independent, unbiased and transparent to keep high standards.

J. Bohannon, *Science* 2013, **342**, 60–65.

<http://dx.doi.org/10.1126/science.342.6154.60>

10. “More woking hours yield more results” is a vicious and certainly false statement. Woking 24/7 decreases creativity and productivity and will eventually ruin one’s health.

H. Ledford, *Nature* 2011, **477**, 20–22.

<http://dx.doi.org/10.1038/477020a>

11. “Science is like sex: sometimes something useful comes out, but that's not the reason why we're doing it.”

– Richard P. Feynman